

PATENT SPECIFICATION



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COMPLETE SPECIFICATION.

Friction Wheel Pocket-lighters.

I, GUSTAV HAHNLE, Senior, of No. 10, Christof Allee, Pforzheim, Germany, of German nationality, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to a friction wheel pocket-lighter of the kind comprising two casings telescoped the one in the other and designed, the one for holding the absorbing mass, and the other to serve as cover for the first mentioned casing, the wick and friction wheel being carried by the top plate of the inner casing which is provided with a hinged lid carrying a wick cap.

Pocket lighters of this kind are known, they present however the inconvenience that the outer casing as well as the cap which covers the projecting end of the wick do not fit tightly enough when the pocket lighter is in the inoperative position, so that the volatile fuel evaporates very rapidly.

This inconvenience is avoided by the present invention, which consists in the arrangement of a band around the top plate of the inner casing which contains the material saturated with benzine so that underneath the edge of this top plate a strip of rubber or other packing material may be arranged to serve as a seat for the top edge of the outer casing. The cap which covers the end of the wick, when the pocket lighter is closed, is formed by packing material, for instance a rubber tube enclosed between two concentric tubes so that the free end of the rubber tube is tightly pressed upon the top plate of the inner casing, when the lid is closed.

An embodiment of the invention is shown in the accompanying drawing in which:—

Fig. 1 shows in elevation the closed pocket lighter.

[Price 1/-]

Fig. 2 shows the open pocket lighter in longitudinal section.

Fig. 3 is a top plan view of Fig. 2 the lid being removed.

Fig. 4 is a plan view of the lid viewed from below.

The top plate 1 of the casing 2, filled with the material 3 for absorbing the fuel, carries a wick 4, a bracket 5 for a friction wheel 6, a supply tube 7 in which a rod 9 of cerium iron, controlled by a spring 8, is located, a tube 10 enclosing the lid spring 11 and forming at its inner end a reservoir 12 for spare rods 9 of cerium iron, and a lid 14, fixed by means of a hinge 13. A band 15 is placed around the top plate 1 and between said band 15 and the side walls of the casing 2 packing material, for instance a rubber ring 16, is inserted on which bears tightly the edge of the outer casing 17 which encloses the casing 2. In the lid 14 a wick cap is arranged, which consists of an inner tubular element 18 and of an outer tubular element 19 between which two elements a packing, for instance a piece of rubber tube 20, is inserted so that it slightly projects from the free ends of the tubular elements 18 and 19. When the lid 14 is closed not only the noise is deadened but also the projecting end of the wick is tightly packed. The reservoir for the spare rods 9 of cerium iron is formed by a plate 21 inserted into tube 10, and closed by means of a cover plate 22. The lid 14 has a nose 23 to facilitate the manipulation of the pocket lighter with one hand. A push exerted with the thumb of the hand which holds the lighter is sufficient to open the lid. The pocket lighter is of oval cross section so that it can be easily carried in the pocket. The pocket-lighter may be of any material and ornamented as desired.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is

to be performed, I declare that what I claim is:—

1. A friction wheel pocket lighter of the kind described characterised by the arrangement of a band 15 around the top plate 1 of the inner casing 2 so that underneath the edge of the said top plate 1 a strip 16 of packing material, for instance rubber, may be arranged so that it is covered and serves as seat for the top edge of the outer casing 17 placed from below over said casing 2 and inserted under said band 15.

2. A friction wheel pocket lighter as

claimed in Claim 1 characterised in that the wick cap is formed by packing material, for instance a rubber tube enclosed between two concentric tubes 18, 19, in such a manner that when the lid is closed the projecting edge of said rubber tube is tightly pressed upon the top plate 1 of the inner casing 2.

Dated this 21st day of February, 1927.

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[This Drawing is a reproduction of the Original on a reduced scale.]

